



# IC-F3GT (VHF transceiver with keypad)

## IC-F3GS

(VHF transceiver without keypad)

## C-F4GT (UHF transceiver with keypad)

## **IC-F4GS**

(UHF transceiver without keypad)





DURABILITY, DEPENDABILITY, OPERATION SIMPLICITY, STYLE, RUGGED-NESS, ECONOMICAL USE, AND MORE ARE REQUIRED FOR COMMERCIAL TRANSCEIVERS. BUT ONLY A FEW SUCH TRANSCEIVERS ARE AVAILABLE, PARTICULARLY FOR PORTABLES. NOW FROM ICOM— THE IC-F3G SERIES OF PORTABLE TRANSCEIVERS AIM TO BECOME THE MOST HIGHLY REPUTABLE OF ALL COMMERCIALS. SUPERIOR PERFORMANCE AND FEATURES, EVERYTHING YOU REQUIRE IS INCLUDED. ICOM'S TECHNOLOGY GIVE YOU SATISFACTION YOU NEVER KNEW BEFORE.

### VHF AND UHF TRANSCEIVERS

VHF transceiver with keypad

VHF transceiver without keypad

#### Supports multiple signalling and flexible selective calling

CTCSS/DTCS encoder/decoder, and DTMF, 2/5-tone encoder with user programmable CTCSS, DTCS capabilities, are built-in. The optional UT-96<sup>†</sup> (for 2/5tone), or UT-108<sup>†</sup> (for DTMF) allows decode with ANI functions. In addition, special tone code, for group, and individual calls, and more features are available to support flexible, perfect selective calling op-

• 7-digit code can be used as the 5-tone • Direct individual station/group call with/without own ID transmission, or though repeater • Selectable 5-tone format includes user tone format programming capability (Encode and Decode frequencies, Tone period, No-tone timer, and Tone length) • Text or ID number indication • Desired 5-tone code entering for both individual and group call • Transceiver remote control- stun, kill, and scan start/stop functions • Selectable comparing digit code for decoding . Selective calling capability from a public telephone (UT-108 DTMF DECODER is required; base/repeater station must be connected to the public telephone network)

## IC-F4GT

UHF transceiver with keypad

UHF transceiver without keypad

#### Man down function\*

Automatically sending an emergency signal when the transceiver is left in the horizontal position for a pre-set time.

\*Optional UT-124<sup>†</sup> is required.

### Trunking capabilities\*

Compatible with the SmarTrunk II™, or the LTR® trunking systems.

\*Optional UT-105<sup>†</sup> for SmarTrunk II™, UT-111<sup>†</sup> for LTR® trunking is required.

#### **Operation security**

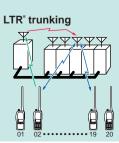
Optional voice scrambler units, UT-109<sup>t</sup> and UT-110<sup>†</sup>, for secure communications are available.

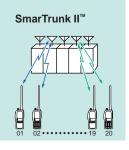
#### Programmable key assign

Up to 8 programmable keys are available to assign specific functions. In particular, the red key can be used for important function, such as emergency call, etc.

Wide/narrow channel switchable depending on version

# System image diagram Conventional









### MIL spec. durability

54(W)×132(H)×35(D) mm\* compact body with durable, dependable construction, has been tested to the MIL standard. \*21/8(W)×53/16(H)×17/16(D) in



#### Simple operation

Enlarged 7-character alphanumeric automatic backlit LCD, and function keys make for easier operation.

# munication with simple operation

### **OPTIONS**

Some options may not be available in some countries. Please ask your dealer for details.



BATTERY PACKS & CASE	TYPE & CAPACITY	OUTPUT POWER IC-F3GT/GS IC-F4GT/GS		BATTERY LIFE
BP-208N	AA (LR6) batteries × 6	1 W typ.	1 W typ.	_
BP-209N	Ni-Cd 7.2 V/1100 mAh	5 W typ.	4 W typ.	8 hours
BP-210N	Ni-MH 7.2 V/1650 mAh	5 W typ.	4 W typ.	11 hours
BP-211N	Li-Ion 7.4 V/1800 mAh	5 W typ.	4 W typ.	12 hours
BP-222N	Ni-Cd 7.2 V/600 mAh	5 W typ.	4 W typ.	4.5 hours

Approx.; (Tx (Hi): Rx: standby=5:5:90)





For rapid charging of up to 6 battery packs (six AD-101s are required.), BP-209N, BP-210N, BP-211N or BP-222N. Charging time:

OPC-656 DC POWER CABLE:

For use the BC-121N with a DC power supply. (12–20 V DC required.)

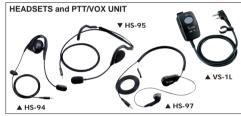


+ BC-145 AC ADAPTER For rapid charging of battery p for BP-211N). Charging time: 1. narging time: 1.5 to 2 hours. D-101 + BC-145 rapidly BC-119N AD-101 charges BP-211N as well as other battery packs.



BC-146 DESKTOP CHARGER BC-147 AC ADAPTER

Charges the battery pack, BP-209N, BP-210N or BP-222N with/without transceiver in 12, 18.5, 6.5 hours (approx.), respectively. An AC adapter, BC-147, is additionally required. Cannot charge Li-Ion battery, BP-211N.

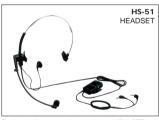


HS-94: Earhook headset with flexible boom microphone.
HS-95: Behind-the-head headset with flexible boom microphone.

Throat microphone fits around your neck and picks up speech vibration. VS-1L: PTT/VOX unit. Required when using these headsets with the transceiver



HM-153L: Durable earphone-microphone with revolving clip.
HM-158L: Compact and durable body with screw-type connector.
HM-159L: Full size durable speaker microphone with revolving clip.



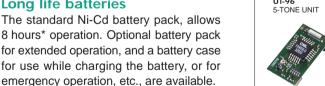




MB-96F: Fixed type belt hanger for use with MB-103. MB-96N: Swivel belt hanger.

UT-124

MAN DOWN



#### Other features

Long life batteries

• 100 or 40 memory channels are available

\*approx.; Tx:Rx:Standby ratio = 5:5:90

COM

• Powerful 5 W output for IC-F3GT/GS, 4 W output for IC-F4GT/GS • Selectable channel attribute from emergency, priority A/B, and normal • Normal and priority scans • Auto LCD contrast • 2 step power saver • 5 autodialing memories for DTMF • Busy, repeater lockout functions • Power ON password • Mic. remote control function, and more...

†only one of either unit can be installed.



Provides either the 2/5-tone encode/decode and ANI capabilities.

Provides Principal Control of the Co

Provides LTR® trunking capabilities

Automatically sends an emergency signal when the transceiver is left in a horizontal position for a preset time.



Provides clear audio in noisy



BNC-type antenna.
(For maintenance use only)



	Freq. range	Length	Ring Color
FA-SC56VS	150-162 MHz	80mm	Red
FA-SC57VS 160-174 MHz		80mm	Green
FA-SC73US	450-490 MHz	60mm	Red

#### ANTENNAS (Standard type)

FA-SC25V for 136-150MHz FA-SC55V for 150-174MHz FA-SC25U for 400-430MHz FA-SC57U for 430–470MHz FA-SC72U for 470–520MHz

#### **SPECIFICATIONS**

GENERAL				
<ul> <li>Frequency range</li> </ul>	:			
IC-F3GT/GS	136-150 MHz	146-174 MHz		
IC-F4GT/GS	400-430 MHz	440-470 MHz		
	470–500 MHz			
	490-512 MHz (USA)			
	490-520 MHz (others)			
Number of channel	: 100Ch or 40Ch (Varies according to version)			
<ul> <li>Channel spacing</li> </ul>	: 12.5 kHz, 20 kHz, 25kHz			
A - 1	12.5/25kHz			
Antenna impedance     Fraguenay array	: 50 Ω	2 F2OT)		
<ul> <li>Frequency error</li> </ul>	: ±0.0005% (EIA; IC-F3GT)			
	±0.00025% (EIA; IC-F4GT) ±1.5 kHz (ETS; 12.5 kHz)			
	±2 kHz (ETS; 25/20 kHz)			
PLL channel step	: 5 kHz, 6.25 kHz, 7.5 kHz			
'	: 7.2 V DC (Icom battery pack)			
• Current drain (at 7.2 V DC)	:	anoly paony		
Transmit at 5 W	1.6 A (IC-F3GT/GS	3)		
at 4 W	1.55 A (IC-F4GT/G	SS)		
at 1 W	0.7 A (IC-F3GT/GS)			
	0.8 A (IC-F4GT/GS	S)		
Receive at AF max.	250 mA			
at stand-by				
Operating temp. range	: -30°C to +60°C; -22°F to +140°F (EIA) -25°C to +55°C (ETS)			
<ul> <li>Dimensions</li> </ul>	: 54(W)×132(H)×35(D) mm			
(projections not included)	$; 2^{1/8}(W) \times 5^{3/16}(H) \times 1^{7/16}(D) \text{ in}$			
Weight (with BP-209)	: 370 g; 13.1 oz			

Output power	: IC-F3GT/GS 5.0 W			
	IC-F4GT/GS 4.0 W			
<ul> <li>Max. freq. deviation</li> </ul>	: ±2.5 kHz, ± 5 kHz, ±4 kHz			
<ul> <li>Modulation limiting</li> </ul>	: 80–100%			
<ul> <li>Audio harmonic distortion</li> </ul>	: 3% max. (1 kHz/40% dev.)			
	5% max. (1 kHz/60% dev.)			
<ul> <li>Spurious emissions</li> </ul>	: 73 dBc (EIA)			
	Less than 0.25 µW (ETS)			
<ul> <li>Adjacent ch. power</li> </ul>	: 60 dB typ. (EIA; 12.5 kHz)			
	70 dB typ. (EIA; 25 kHz)			
	60 dB (ETS; 12.5 kHz)			
	70 dB (ETS; 25/20 kHz)			
<ul> <li>Residual modulation</li> </ul>	: 40 dB typ. (EIA; 12.5 kHz)			
	45 dB typ. (EIA; 25 kHz)			
	43 dB (ETS; 12.5 kHz)			
	45 dB (ETS; 25/20 kHz)			
<ul> <li>External MIC connector</li> </ul>	: 3-conductor 2.5 (d) mm ( $\frac{1}{10}$ ")/2.2 k $\Omega$			

TRANSMITTER

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	RECEIVER		
<ul> <li>Sensitivity</li> </ul>	:		
IC-F3GT/GS	0.25 μV (at 12 dB SINAD)		
	0.63 μV (at 20 dB SINAD)		
IC-F4GT/GS	0.3 μV (at 12 dB SINAD)		
	0.79 µV emf (at 20 dB SINAD)		
<ul> <li>Squelch sensitivity (at three</li> </ul>	shold):		
IC-F3GT/GS	0.25 μV		
IC-F4GT/GS	0.3 μV		
<ul> <li>Adjacent Ch. selectivity</li> </ul>	: 65 dB typ. (EIA; 12.5 kHz)		
	75 dB typ. (EIA; 25 kHz)		
	60 dB (ETS; 12.5 kHz)		
0 .	70 dB (ETS; 25/20 kHz)		
<ul> <li>Spurious response</li> </ul>	: 70 dB (EIA)		
1.1.0	70 dB (ETS)		
<ul> <li>Intermodulation</li> </ul>	: 70 dB (EIA)		
- I lives and mains notice	65 dB (ETS)		
<ul> <li>Hum and noise ratio</li> </ul>	: 40 dB typ. (EIA; 12.5 kHz)		
	45 dB typ. (EIA; 25 kHz)		
	43 dB (ETS; 12.5 kHz)		
• Audio output power	45 dB (ETS; 25/20 kHz) : 0.5 W at 5% distortion with an 8 Ω load		
<ul> <li>Audio output power</li> <li>External SP connector</li> </ul>			
- External SF Connector	: 2-conductor 3.5 (d) mm (1/8")/8 $\Omega$		

#### Applicable U.S. Military Specifications

Icom makes rugged products that have been tested to and passed the following MIL-STD requirements and strict environmental standards.

Standard	MIL 810C		MIL 810D		MIL 810E	
	Method	Procedure	Method	Procedure	Method	Procedure
Low Pressure	500.1	I	500.2	I, II	500.3	I, II
High Temp.	501.1	I	501.2	I, II	501.3	I, II
Low Temp.	502.1	I	502.2	I, II	502.3	I, II
Temp. Shock	503.1	I	503.2	I	503.3	I
Solar Radiation	505.1	I	505.2	I	505.3	I
Rain	506.1	I, II	506.2	I, II	506.3	I, II
Humidity	507.1	I, II	507.2	II, III	507.3	II, III
Salt Fog	509.1	I	509.2	I	509.3	I
Dust	510.1	I	510.2	I	510.3	I
Vibration	514.2	VIII, X	514.3	I	514.4	I
Shock	516.2	I, II, V	516.3	I, IV	516.4	I, IV

Measurements made in accordance with EIA/TIA-152C/204D, or ETS 300-086. All stated specifications are typical and subject to change without notice or obligation.



URL: http://www.icom.co.jp/world/index.html

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